

June 11, 2007

Bill Haldeman
PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

RE: 2555 13th Avenue SW, Seattle, WA 98134

Enclosed are the results of analyses for samples received by the laboratory on 05/21/07 17:20.
The following list is a summary of the Work Orders contained in this report, generated on 06/11/07 15:36.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQE0347	2555 13th Avenue SW, Seattle	SAP# 357032

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental

9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project Name:

2555 13th Avenue SW, Seattle, WA 98134

Project Number:

SAP# 357032

Project Manager:

Bill Haldeman

Report Created:

06/11/07 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall-1-052107	BQE0347-01	Water	05/21/07 08:00	05/21/07 17:20
Outfall-2-052107	BQE0347-02	Water	05/21/07 08:30	05/21/07 17:20

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Volatile Petroleum Products by NWTPH-Gx

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0347-01	(Outfall-1-052107)	Water					Sampled: 05/21/07 08:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7F08019	06/08/07 10:30	06/08/07 13:14	
Surrogate(s): 4-BFB (FID)			87.5%	58 - 144 %		"			"	

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Sandra Yakamavich, Project Manager



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9 Lake Bellevue Dr Ste 108
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Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0347-01	(Outfall-1-052107)	Water		Sampled: 05/21/07 08:00						
Copper	EPA 200.7	ND	----	0.0100	mg/l	1x	7E22006	05/22/07 09:08	05/22/07 15:21	
Lead	"	ND	----	0.0500	"	"	"	"	"	
Zinc	"	0.0549	----	0.0200	"	"	"	"	"	

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Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Organochlorine Pesticides and PCBs by EPA Method 608

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0347-01	(Outfall-1-052107)	Water		Sampled: 05/21/07 08:00						
Aroclor 1016	EPA 608	ND	----	0.472	ug/l	1x	7E25024	05/25/07 09:27	05/30/07 20:12	L
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	B
<i>Surrogate(s): TCX</i>		82.0%		25 - 129 %		"		"		
<i>Decachlorobiphenyl</i>		30.4%		22 - 125 %		"		"		

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

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Purgeables by EPA Method 624

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Purgeables by EPA Method 624

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Sandra Yakamavich, Project Manager

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9 Lake Bellevue Dr Ste 108
 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Conventional Chemistry Parameters by APHA/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQE0347-01 (Outfall-1-052107)		Water		Sampled: 05/21/07 08:00						
Oil & Grease (HEM)	EPA 1664A	ND	----	4.72	mg/l	1x	7E31023	05/31/07 09:20	06/04/07 16:32	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	----	4.72	"	"	"	"	"	
BQE0347-02 (Outfall-2-052107)		Water		Sampled: 05/21/07 08:30						
Oil & Grease (HEM)	EPA 1664A	ND	----	4.72	mg/l	1x	7E31023	05/31/07 09:20	06/04/07 16:32	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	----	4.72	"	"	"	"	"	

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PES Environmental	Project Name: 2555 13th Avenue SW, Seattle, WA 98134	Report Created:
9 Lake Bellevue Dr Ste 108	Project Number: SAP# 357032	06/11/07 15:36
Bellevue, WA/USA 98005	Project Manager: Bill Haldeman	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7F08019	Water Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7F08019-BLK1)							Extracted: 06/08/07 10:30							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	06/08/07 11:42	
Surrogate(s): 4-BFB (FID)		Recovery:	84.7%	Limits: 58-144%		"		06/08/07 11:42						
LCS (7F08019-BS1)							Extracted: 06/08/07 10:30							
Gasoline Range Hydrocarbons	NWTPH-Gx	1100	---	50.0	ug/l	1x	--	1000	110%	(80-120)	--	--	06/08/07 12:42	
Surrogate(s): 4-BFB (FID)		Recovery:	93.8%	Limits: 58-144%		"		06/08/07 12:42						
Duplicate (7F08019-DUP1)				QC Source: BQF0059-01				Extracted: 06/08/07 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	153	---	50.0	ug/l	1x	154	--	--	--	0.651% (25)		06/08/07 21:06	
Surrogate(s): 4-BFB (FID)		Recovery:	84.3%	Limits: 58-144%		"		06/08/07 21:06						
Duplicate (7F08019-DUP2)				QC Source: BQF0095-01				Extracted: 06/08/07 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	64.8% (25)		06/09/07 03:38	R4
Surrogate(s): 4-BFB (FID)		Recovery:	87.3%	Limits: 58-144%		"		06/09/07 03:38						
Matrix Spike (7F08019-MS1)				QC Source: BQF0012-01				Extracted: 06/08/07 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	1210	---	50.0	ug/l	1x	168	1000	104%	(75-131)	--	--	06/08/07 15:40	
Surrogate(s): 4-BFB (FID)		Recovery:	93.7%	Limits: 58-144%		"		06/08/07 15:40						
Matrix Spike Dup (7F08019-MSD1)				QC Source: BQF0012-01				Extracted: 06/08/07 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	1160	---	50.0	ug/l	1x	168	1000	99.2%	(75-131)	4.22% (25)		06/08/07 16:12	
Surrogate(s): 4-BFB (FID)		Recovery:	91.5%	Limits: 58-144%		"		06/08/07 16:12						

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 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E22006

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E22006-BLK1)										Extracted: 05/22/07 09:08				
Zinc	EPA 200.7	ND	---	0.0200	mg/l	1x	--	--	--	--	--	--	05/22/07 14:55	
Copper	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
LCS (7E22006-BS1)										Extracted: 05/22/07 09:08				
Zinc	EPA 200.7	5.27	---	0.0200	mg/l	1x	--	5.00	105%	(85-115)	--	--	05/22/07 15:02	
Copper	"	4.73	---	0.0100	"	"	--	"	94.6%	"	--	--	"	
Lead	"	4.91	---	0.0500	"	"	--	"	98.2%	"	--	--	"	
Duplicate (7E22006-DUP1)										QC Source: BQE0347-01				
										Extracted: 05/22/07 09:08				
Lead	EPA 200.7	ND	---	0.0500	mg/l	1x	ND	--	--	--	NR	(20)	05/22/07 15:15	R4
Zinc	"	0.0531	---	0.0200	"	"	0.0549	--	--	--	3.33%	"	"	R4
Copper	"	ND	---	0.0100	"	"	ND	--	--	--	10.0%	"	"	R4
Matrix Spike (7E22006-MS1)										QC Source: BQE0347-01				
										Extracted: 05/22/07 09:08				
Zinc	EPA 200.7	5.36	---	0.0200	mg/l	1x	0.0549	5.00	106%	(80-120)	--	--	05/22/07 15:08	
Lead	"	4.95	---	0.0500	"	"	ND	"	99.0%	"	--	--	"	
Copper	"	4.78	---	0.0100	"	"	0.00840	"	95.4%	"	--	--	"	

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9 Lake Bellevue Dr Ste 108	Project Number: SAP# 357032	06/11/07 15:36
Bellevue, WA/USA 98005	Project Manager: Bill Haldeman	

Organochlorine Pesticides and PCBs by EPA Method 608 - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 7E25024	Water Preparation Method: EPA 3520C
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (7E25024-BLK4)

Extracted: 05/25/07 09:27

Aroclor 1016	EPA 608	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	05/30/07 19:20	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	B
Surrogate(s): TCX Recovery: 80.5% Limits: 25-129% "														
Decachlorobiphenyl 67.5% 22-125% "														
													05/30/07 19:20	
													"	

LCS (7E25024-BS2)

Extracted: 05/25/07 09:27

Aroclor 1016	EPA 608	2.71	---	0.500	ug/l	1x	--	2.50	108%	(50-114)	--	--	05/30/07 19:37	
Aroclor 1260	"	2.65	---	0.500	"	"	--	"	106%	(8-127)	--	--	"	
Surrogate(s): TCX Recovery: 93.5% Limits: 25-129% "														
Decachlorobiphenyl 87.5% 22-125% "														
													05/30/07 19:37	
													"	

LCS Dup (7E25024-BSD2)

Extracted: 05/25/07 09:27

Aroclor 1016	EPA 608	2.87	---	0.500	ug/l	1x	--	2.50	115%	(50-114)	5.73% (35)		05/30/07 19:54	L
Aroclor 1260	"	2.64	---	0.500	"	"	--	"	106%	(8-127)	0.378% "		"	
Surrogate(s): TCX Recovery: 93.5% Limits: 25-129% "														
Decachlorobiphenyl 77.5% 22-125% "														
													05/30/07 19:54	
													"	

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Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E23028-BLK1)										Extracted: 05/23/07 12:47				
Acetone	EPA 624	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	05/23/07 15:12	
Acetonitrile	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Acrolein	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Acrylonitrile	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chloroethylvinyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

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Sandra Yakamavich, Project Manager



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Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (7E23028-BLK1)

Extracted: 05/23/07 12:47

Tetrachloroethene	EPA 624	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	05/23/07 15:12	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl acetate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4

Recovery: 98.5%

Limits: 70-130% "

05/23/07 15:12

Toluene-d8

101%

70-130% "

"

4-BFB

102%

70-130% "

"

LCS (7E23028-BS1)

Extracted: 05/23/07 12:47

Acetone	EPA 624	183	---	10.0	ug/l	1x	--	200	91.5%	(70-130)	--	--	05/23/07 13:31	
Benzene	"	18.2	---	1.00	"	"	--	20.0	91.0%	(75-125)	--	--	"	
Bromodichloromethane	"	18.7	---	1.00	"	"	--	"	93.5%	"	--	--	"	
Bromoform	"	18.2	---	1.00	"	"	--	"	91.0%	"	--	--	"	
Bromomethane	"	21.9	---	2.00	"	"	--	"	110%	"	--	--	"	
2-Butanone	"	193	---	10.0	"	"	--	200	96.5%	(70-130)	--	--	"	
Carbon disulfide	"	19.9	---	1.00	"	"	--	20.0	99.5%	"	--	--	"	
Carbon tetrachloride	"	22.6	---	1.00	"	"	--	"	113%	(75-125)	--	--	"	
Chlorobenzene	"	19.4	---	1.00	"	"	--	"	97.0%	"	--	--	"	
Chloroethane	"	19.7	---	1.00	"	"	--	"	98.5%	"	--	--	"	
Chloroform	"	19.0	---	1.00	"	"	--	"	95.0%	"	--	--	"	
Chloromethane	"	18.4	---	5.00	"	"	--	"	92.0%	"	--	--	"	
Dibromochloromethane	"	19.2	---	1.00	"	"	--	"	96.0%	"	--	--	"	
1,2-Dibromo-3-chloropropane	"	18.4	---	5.00	"	"	--	"	92.0%	(70-130)	--	--	"	
1,2-Dibromoethane	"	19.4	---	1.00	"	"	--	"	97.0%	"	--	--	"	
Dibromomethane	"	19.7	---	1.00	"	"	--	"	98.5%	"	--	--	"	
1,2-Dichlorobenzene	"	20.0	---	1.00	"	"	--	"	100%	(75-125)	--	--	"	
1,3-Dichlorobenzene	"	19.9	---	1.00	"	"	--	"	99.5%	"	--	--	"	
1,4-Dichlorobenzene	"	19.9	---	1.00	"	"	--	"	99.5%	"	--	--	"	
Dichlorodifluoromethane	"	24.7	---	1.00	"	"	--	"	124%	(70-130)	--	--	"	
1,1-Dichloroethane	"	18.8	---	1.00	"	"	--	"	94.0%	(75-125)	--	--	"	
1,2-Dichloroethane	"	20.0	---	1.00	"	"	--	"	100%	"	--	--	"	
1,1-Dichloroethene	"	20.7	---	1.00	"	"	--	"	104%	"	--	--	"	

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Sandra Yakamavich

Sandra Yakamavich, Project Manager



PES Environmental

9 Lake Bellevue Dr Ste 108
 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7E23028-BS1)										Extracted: 05/23/07 12:47				
cis-1,2-Dichloroethene	EPA 624	20.0	---	1.00	ug/l	1x	--	20.0	100%	(70-130)	--	--	05/23/07 13:31	
trans-1,2-Dichloroethene	"	19.9	---	1.00	"	"	--	"	99.5%	(75-125)	--	--	"	
1,2-Dichloropropane	"	18.9	---	1.00	"	"	--	"	94.5%	"	--	--	"	
cis-1,3-Dichloropropene	"	18.5	---	1.00	"	"	--	"	92.5%	"	--	--	"	
trans-1,3-Dichloropropene	"	19.6	---	1.00	"	"	--	"	98.0%	"	--	--	"	
Ethylbenzene	"	19.6	---	1.00	"	"	--	"	98.0%	"	--	--	"	
2-Hexanone	"	194	---	10.0	"	"	--	200	97.0%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	187	---	10.0	"	"	--	"	93.5%	"	--	--	"	
Methylene chloride	"	18.4	---	5.00	"	"	--	20.0	92.0%	(75-125)	--	--	"	
Styrene	"	19.8	---	1.00	"	"	--	"	99.0%	(70-130)	--	--	"	
1,1,1,2-Tetrachloroethane	"	20.2	---	1.00	"	"	--	"	101%	"	--	--	"	
1,1,2,2-Tetrachloroethane	"	17.6	---	1.00	"	"	--	"	88.0%	(75-125)	--	--	"	
Tetrachloroethene	"	20.9	---	1.00	"	"	--	"	104%	(75-130)	--	--	"	
Toluene	"	18.9	---	1.00	"	"	--	"	94.5%	(75-120)	--	--	"	
1,1,1-Trichloroethane	"	21.6	---	1.00	"	"	--	"	108%	(75-130)	--	--	"	
1,1,2-Trichloroethane	"	19.2	---	1.00	"	"	--	"	96.0%	"	--	--	"	
Trichloroethene	"	20.3	---	1.00	"	"	--	"	102%	(75-120)	--	--	"	
Trichlorofluoromethane	"	23.3	---	1.00	"	"	--	"	116%	(75-130)	--	--	"	
1,2,3-Trichloropropane	"	18.5	---	1.00	"	"	--	"	92.5%	(70-130)	--	--	"	
Vinyl chloride	"	20.9	---	1.00	"	"	--	"	104%	(75-125)	--	--	"	
o-Xylene	"	19.6	---	1.00	"	"	--	"	98.0%	(70-130)	--	--	"	
m,p-Xylene	"	38.4	---	2.00	"	"	--	40.0	96.0%	"	--	--	"	

Surrogate(s): 1,2-DCA-d4

Recovery: 102%

Limits: 70-130%

"

05/23/07 13:31

Toluene-d8

101%

70-130%

"

"

4-BFB

98.0%

70-130%

"

"

Matrix Spike (7E23028-MS1)

QC Source: BQE0387-03

Extracted: 05/23/07 12:47

Acetone	EPA 624	174	---	10.0	ug/l	1x	ND	200	87.0%	(50-150)	--	--	05/23/07 22:53	
Benzene	"	20.1	---	1.00	"	"	ND	20.0	100%	(37-151)	--	--	"	
Bromodichloromethane	"	20.0	---	1.00	"	"	ND	"	100%	(35-155)	--	--	"	
Bromoform	"	18.5	---	1.00	"	"	ND	"	92.5%	(45-169)	--	--	"	
Bromomethane	"	26.2	---	2.00	"	"	ND	"	131%	(50-150)	--	--	"	
2-Butanone	"	175	---	10.0	"	"	ND	200	87.5%	"	--	--	"	
Carbon disulfide	"	22.3	---	1.00	"	"	ND	20.0	112%	"	--	--	"	
Carbon tetrachloride	"	24.1	---	1.00	"	"	ND	"	120%	(70-140)	--	--	"	
Chlorobenzene	"	21.3	---	1.00	"	"	ND	"	106%	(37-160)	--	--	"	
Chloroethane	"	22.8	---	1.00	"	"	1.39	"	107%	(14-230)	--	--	"	
Chloroform	"	22.6	---	1.00	"	"	0.420	"	111%	(51-138)	--	--	"	
Chloromethane	"	21.6	---	5.00	"	"	ND	"	108%	(0-273)	--	--	"	

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Sandra Yakamavich

Sandra Yakamavich, Project Manager



PES Environmental

9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7E23028-MS1)		QC Source: BQE0387-03						Extracted: 05/23/07 12:47						
Dibromochloromethane	EPA 624	20.0	---	1.00	ug/l	1x	ND	20.0	100%	(53-149)	--	--	05/23/07 22:53	
1,2-Dibromo-3-chloropropane	"	16.4	---	5.00	"	"	ND	"	82.0%	(50-150)	--	--	"	
1,2-Dibromoethane	"	20.2	---	1.00	"	"	ND	"	101%	"	--	--	"	
Dibromomethane	"	20.4	---	1.00	"	"	ND	"	102%	"	--	--	"	
1,2-Dichlorobenzene	"	21.2	---	1.00	"	"	ND	"	106%	(18-190)	--	--	"	
1,3-Dichlorobenzene	"	21.3	---	1.00	"	"	ND	"	106%	(59-156)	--	--	"	
1,4-Dichlorobenzene	"	21.4	---	1.00	"	"	ND	"	107%	(18-190)	--	--	"	
Dichlorodifluoromethane	"	26.6	---	1.00	"	"	ND	"	133%	(50-150)	--	--	"	
1,1-Dichloroethane	"	41.4	---	1.00	"	"	19.8	"	108%	(59-155)	--	--	"	
1,2-Dichloroethane	"	21.5	---	1.00	"	"	ND	"	108%	(49-155)	--	--	"	
1,1-Dichloroethene	"	33.1	---	1.00	"	"	9.43	"	118%	(59-158)	--	--	"	
cis-1,2-Dichloroethene	"	314	---	1.00	"	"	291	"	115%	(50-150)	--	--	"	
trans-1,2-Dichloroethene	"	24.1	---	1.00	"	"	1.67	"	112%	(54-156)	--	--	"	
1,2-Dichloropropane	"	20.6	---	1.00	"	"	ND	"	103%	(0-210)	--	--	"	
cis-1,3-Dichloropropene	"	19.7	---	1.00	"	"	ND	"	98.5%	(0-227)	--	--	"	
trans-1,3-Dichloropropene	"	19.4	---	1.00	"	"	ND	"	97.0%	(17-183)	--	--	"	
Ethylbenzene	"	21.4	---	1.00	"	"	ND	"	107%	(37-162)	--	--	"	
2-Hexanone	"	179	---	10.0	"	"	ND	200	89.5%	(50-150)	--	--	"	
4-Methyl-2-pentanone	"	175	---	10.0	"	"	ND	"	87.5%	"	--	--	"	
Methylene chloride	"	19.6	---	5.00	"	"	ND	20.0	98.0%	(25-221)	--	--	"	
Styrene	"	21.4	---	1.00	"	"	ND	"	107%	(50-150)	--	--	"	
1,1,1,2-Tetrachloroethane	"	21.8	---	1.00	"	"	ND	"	109%	"	--	--	"	
1,1,2,2-Tetrachloroethane	"	17.5	---	1.00	"	"	ND	"	87.5%	(46-157)	--	--	"	
Tetrachloroethene	"	23.3	---	1.00	"	"	0.720	"	113%	(64-148)	--	--	"	
Toluene	"	20.7	---	1.00	"	"	ND	"	104%	(47-150)	--	--	"	
1,1,1-Trichloroethane	"	47.8	---	1.00	"	"	22.3	"	128%	(52-162)	--	--	"	
1,1,2-Trichloroethane	"	19.6	---	1.00	"	"	ND	"	98.0%	(52-150)	--	--	"	
Trichloroethene	"	70.9	---	1.00	"	"	49.5	"	107%	(71-157)	--	--	"	
Trichlorofluoromethane	"	26.3	---	1.00	"	"	ND	"	132%	(17-181)	--	--	"	
1,2,3-Trichloropropane	"	18.2	---	1.00	"	"	ND	"	91.0%	(50-150)	--	--	"	
Vinyl chloride	"	129	---	1.00	"	"	118	"	55.0%	(0-251)	--	--	"	
o-Xylene	"	21.2	---	1.00	"	"	ND	"	106%	(50-150)	--	--	"	
m,p-Xylene	"	42.3	---	2.00	"	"	ND	40.0	106%	"	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	102%	Limits:	70-130%	"							05/23/07 22:53	
	Toluene-d8		100%		70-130%	"							"	
	4-BFB		99.5%		70-130%	"							"	

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental

9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7E23028-MSD1)		QC Source: BQE0387-03						Extracted: 05/23/07 12:47						
Acetone	EPA 624	173	---	10.0	ug/l	1x	ND	200	86.5%	(50-150)	0.576%	(50)	05/23/07 23:23	
Benzene	"	19.4	---	1.00	"	"	ND	20.0	97.0%	(37-151)	3.54%	"	"	
Bromodichloromethane	"	19.5	---	1.00	"	"	ND	"	97.5%	(35-155)	2.53%	"	"	
Bromoform	"	18.2	---	1.00	"	"	ND	"	91.0%	(45-169)	1.63%	"	"	
Bromomethane	"	24.7	---	2.00	"	"	ND	"	124%	(50-150)	5.89%	"	"	
2-Butanone	"	180	---	10.0	"	"	ND	200	90.0%	"	2.82%	"	"	
Carbon disulfide	"	21.4	---	1.00	"	"	ND	20.0	107%	"	4.12%	"	"	
Carbon tetrachloride	"	22.5	---	1.00	"	"	ND	"	112%	(70-140)	6.87%	"	"	
Chlorobenzene	"	20.8	---	1.00	"	"	ND	"	104%	(37-160)	2.38%	"	"	
Chloroethane	"	22.5	---	1.00	"	"	1.39	"	106%	(14-230)	1.32%	"	"	
Chloroform	"	21.4	---	1.00	"	"	0.420	"	105%	(51-138)	5.45%	"	"	
Chloromethane	"	20.2	---	5.00	"	"	ND	"	101%	(0-273)	6.70%	"	"	
Dibromochloromethane	"	19.6	---	1.00	"	"	ND	"	98.0%	(53-149)	2.02%	"	"	
1,2-Dibromo-3-chloropropane	"	16.9	---	5.00	"	"	ND	"	84.5%	(50-150)	3.00%	"	"	
1,2-Dibromoethane	"	19.9	---	1.00	"	"	ND	"	99.5%	"	1.50%	"	"	
Dibromomethane	"	19.8	---	1.00	"	"	ND	"	99.0%	"	2.99%	"	"	
1,2-Dichlorobenzene	"	21.4	---	1.00	"	"	ND	"	107%	(18-190)	0.939%	"	"	
1,3-Dichlorobenzene	"	21.6	---	1.00	"	"	ND	"	108%	(59-156)	1.40%	"	"	
1,4-Dichlorobenzene	"	21.0	---	1.00	"	"	ND	"	105%	(18-190)	1.89%	"	"	
Dichlorodifluoromethane	"	24.4	---	1.00	"	"	ND	"	122%	(50-150)	8.63%	"	"	
1,1-Dichloroethane	"	39.6	---	1.00	"	"	19.8	"	99.0%	(59-155)	4.44%	"	"	
1,2-Dichloroethane	"	20.8	---	1.00	"	"	ND	"	104%	(49-155)	3.31%	"	"	
1,1-Dichloroethene	"	31.2	---	1.00	"	"	9.43	"	109%	(59-158)	5.91%	"	"	
trans-1,2-Dichloroethene	"	23.2	---	1.00	"	"	1.67	"	108%	(54-156)	3.81%	"	"	
1,2-Dichloropropane	"	20.0	---	1.00	"	"	ND	"	100%	(0-210)	2.96%	"	"	
cis-1,3-Dichloropropene	"	18.8	---	1.00	"	"	ND	"	94.0%	(0-227)	4.68%	"	"	
trans-1,3-Dichloropropene	"	19.4	---	1.00	"	"	ND	"	97.0%	(17-183)	0.00%	"	"	
Ethylbenzene	"	20.8	---	1.00	"	"	ND	"	104%	(37-162)	2.84%	"	"	
2-Hexanone	"	181	---	10.0	"	"	ND	200	90.5%	(50-150)	1.11%	"	"	
4-Methyl-2-pentanone	"	176	---	10.0	"	"	ND	"	88.0%	"	0.570%	"	"	
Methylene chloride	"	19.2	---	5.00	"	"	ND	20.0	96.0%	(25-221)	2.06%	"	"	
Styrene	"	21.0	---	1.00	"	"	ND	"	105%	(50-150)	1.89%	"	"	
1,1,1,2-Tetrachloroethane	"	21.3	---	1.00	"	"	ND	"	106%	"	2.32%	"	"	
1,1,2,2-Tetrachloroethane	"	17.7	---	1.00	"	"	ND	"	88.5%	(46-157)	1.14%	"	"	
Tetrachloroethene	"	22.2	---	1.00	"	"	0.720	"	107%	(64-148)	4.84%	"	"	
Toluene	"	20.3	---	1.00	"	"	ND	"	102%	(47-150)	1.95%	"	"	
1,1,1-Trichloroethane	"	45.4	---	1.00	"	"	22.3	"	116%	(52-162)	5.15%	"	"	
1,1,2-Trichloroethane	"	19.7	---	1.00	"	"	ND	"	98.5%	(52-150)	0.509%	"	"	
Trichloroethene	"	67.3	---	1.00	"	"	49.5	"	89.0%	(71-157)	5.21%	"	"	

TestAmerica - Seattle, WA

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Sandra Yakamavich

Sandra Yakamavich, Project Manager



PES Environmental

9 Lake Bellevue Dr Ste 108
 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E23028

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7E23028-MSD1)			QC Source: BQE0387-03					Extracted: 05/23/07 12:47						
Trichlorofluoromethane	EPA 624	24.0	---	1.00	ug/l	1x	ND	20.0	120%	(17-181)	9.15%	(50)	05/23/07 23:23	
1,2,3-Trichloropropane	"	18.3	---	1.00	"	"	ND	"	91.5%	(50-150)	0.548%	"	"	
Vinyl chloride	"	120	---	1.00	"	"	118	"	10.0%	(0-251)	7.23%	"	"	
o-Xylene	"	20.5	---	1.00	"	"	ND	"	102%	(50-150)	3.36%	"	"	
m,p-Xylene	"	41.3	---	2.00	"	"	ND	40.0	103%	"	2.39%	"	"	
<hr/>														
Surrogate(s):	1,2-DCA-d4	Recovery:	98.5%	Limits:	70-130%	"								
	Toluene-d8		100%		70-130%	"								
	4-BFB		99.5%		70-130%	"								

TestAmerica - Seattle, WA

Sandra Yakamovich

Sandra Yakamovich, Project Manager

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PES Environmental

9 Lake Bellevue Dr Ste 108
 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**

Project Number: SAP# 357032

Project Manager: Bill Haldeman

Report Created:

06/11/07 15:36

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7E31023

Water Preparation Method: Gravimetric (hexane)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7E31023-BLK1)										Extracted: 05/31/07 09:20				
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	06/04/07 16:32	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
LCS (7E31023-BS1)										Extracted: 05/31/07 09:20				
Oil & Grease (HEM)	EPA 1664A	37.5	---	5.00	mg/l	1x	--	40.0	93.8%	(78-114)	--	--	06/04/07 16:32	
Total Petroleum Hydrocarbons (SGT-HEM)	"	17.1	---	5.00	"	"	--	20.0	85.5%	(64-132)	--	--	"	
LCS Dup (7E31023-BSD1)										Extracted: 05/31/07 09:20				
Oil & Grease (HEM)	EPA 1664A	37.0	---	5.00	mg/l	1x	--	40.0	92.5%	(78-114)	1.34% (18)		06/04/07 16:32	
Total Petroleum Hydrocarbons (SGT-HEM)	"	17.4	---	5.00	"	"	--	20.0	87.0%	(64-132)	1.74% (34)		"	

TestAmerica - Seattle, WA

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Sandra Yakamovich, Project Manager

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 Bellevue, WA/USA 98005

Project Name: **2555 13th Avenue SW, Seattle, WA 98134**
 Project Number: SAP# 357032
 Project Manager: Bill Haldeman

Report Created:
 06/11/07 15:36

Notes and Definitions

Report Specific Notes:

- B - Analyte was detected in the associated Method Blank.
- H - Sample analysis performed past method-specified holding time.
- L - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



